| <br>x of Cl |  |
|-------------|--|
|             |  |
|             |  |
|             |  |

| Application No. | Applicant(s)      |  |
|-----------------|-------------------|--|
| 10/696,013      | GARDNER, JAMES P. |  |
| Examiner        | Art Unit          |  |
| Khoi H Tran     | 3651              |  |

| <b>~</b> | Rejected |
|----------|----------|
|          | Allowed  |

| ı | (Through numeral)<br>Cancelled |
|---|--------------------------------|
| ÷ | Restricted                     |

| N | Non-Elected  |
|---|--------------|
| ı | Interference |

| A | Appeal   |
|---|----------|
| 0 | Objected |

| Cla           | aim   | Date   |          |  |  |              |  |              |  |                 |  |  |
|---------------|---|--|----------|--|--|--------------|--|--------------|--|-----------------|--|--|
| Final         | Original  | 5/18/20  |          |  |  |              |  |              |  |                 |  |  |
|               | 1   | 7  |          |  |  |              |  |              |  |                 |  |  |
|               | 2   | 1  |          |  |  |              |  |              |  |                 |  |  |
|               | 3   | 1  |          |  |  |              |  |              |  |                 |  |  |
|               | 4   | 1  |          |  |  |              |  |              |  |                 |  |  |
|               | 5   | 1  |          | <u> </u>   |  |              | _  | <u> </u>     |  |                 |  |  |
|               | 6   | 1  | _        | _  |  | _            | <u> </u>   |              |  | <u></u>         |  |  |
|               | 7   | n  | _        | <u> </u>   | _  | ļ            | <u> </u>   | _            | _  | _               |  |  |
|               | 8   | 1  | _        |  | <u> </u>   | _            | _  | <u> </u>     | _  |                 |  |  |
|               | 40  | n  | _        | _  | <u> </u>   |              | _  | -            | -  |                 |  |  |
|               | 110   | 1  | _        | -  |  | -            |  |              |  |                 |  |  |
|               | 12  | 1  | -        | ├  | ⊢  | -            |  | -            | -  | _               |  |  |
|               | 1<br>2<br>3<br>4<br>5<br>6<br>7<br>8<br>9<br>10<br>11<br>12<br>13<br>14<br>15<br>16<br>17<br>18<br>19<br>20<br>21<br>22<br>23<br>24 | 7  | -        | <del>                                     </del> | $\vdash$   | <del> </del> | <del>                                     </del> | $\vdash$     | <del> </del>                                     | $\vdash$        |  |  |
|               | 14  | <del>                                     </del> | $\vdash$ | $\vdash$   | <del>                                     </del> | $\vdash$     | -  | $\vdash$     | <del>                                     </del> |                 |  |  |
|               | 15  | 7  | $\vdash$ | $\vdash$   | <b> </b>   |              | $\vdash$   |              | $\vdash$   |                 |  |  |
|               | 16  | n  |          |  |  |              |  | _            |  |                 |  |  |
|               | 17  | n  |          |  |  |              |  |              |  |                 |  |  |
|               | 18  | 7  |          |  |  |              |  |              |  |                 |  |  |
|               | 19  | 7  |          |  |  |              |  |              |  |                 |  |  |
|               | 20  | 1  |          |  |  |              |  |              |  |                 |  |  |
|               | 21  | 1  |          |  |  |              |  |              |  |                 |  |  |
|               | 22  | n  |          |  |  |              |  |              |  |                 |  |  |
|               | 23  | 1  |          |  |  |              |  |              |  |                 |  |  |
|               | 24  | 1  | <u> </u> |  |  |              |  |              |  |                 |  |  |
|               | 25  | 1  | <u>_</u> | <u> </u>   | _  | _            |  |              | _  |                 |  |  |
|               | 26  | 1  |          | _  |  |              | <u> </u>   | _            | _  | _               |  |  |
|               | 27  | 1  |          | _  | <u> </u>   | ļ            |  | <u> </u>     | <u> </u>   |                 |  |  |
|               | 28  | n  |          | <u> </u>   | _  |              | <u> </u>   | <u> </u>     | <u> </u>   |                 |  |  |
|               | 29  | 1  | -        | <u> </u>   |  | <u> </u>     | -  | <u> </u>     |  |                 |  |  |
| <del></del> - | 30  | n  | $\vdash$ | <del> </del>                                     |  |              |  |              | -  |                 |  |  |
|               | 32  | n  | $\vdash$ | $\vdash$   | -  | -            | $\vdash$   | <del> </del> | <del> </del>                                     | _               |  |  |
|               | 33  | n  |          | $\vdash$   | $\vdash$   | -            | <del>                                     </del> | -            | $\vdash$   |                 |  |  |
|               | 34  | n  |          | <del> </del>                                     |  | -            |  | $\vdash$     | $\vdash$   |                 |  |  |
|               | 35  | n  |          | <del>                                     </del> | $\vdash$   | $\vdash$     |  |              | <del>                                     </del> | $\vdash$        |  |  |
|               | 36  | n  |          |  |  |              | $\vdash$   | $\vdash$     | <del>                                     </del> |                 |  |  |
|               | 37  | n  |          |  |  |              | Ì  | 1            |  |                 |  |  |
|               | 38  |  |          |  |  | •            |  |              |  |                 |  |  |
|               | 39  |  |          |  |  |              |  |              |  |                 |  |  |
|               | 40  |  |          |  |  |              |  |              |  |                 |  |  |
|               | 41  |  |          |  |  |              |  |              |  |                 |  |  |
|               | 42  | L.   |          |  | <u></u>  |              |  |              | L  |                 |  |  |
|               | 43  |  |          | <u> </u>   |  | <u> </u>     | ļ  | <u> </u>     | <u> </u>   | Щ               |  |  |
|               | 44  | <u> </u>   | _        | _  | <u> </u>   | <u> </u>     | <u> </u>   | _            | <u> </u>   |                 |  |  |
|               | 45  | <u> </u>   |          | _  | <u> </u>   | ļ,           |  |              | _  | <u> </u>        |  |  |
|               | 46  |  |          |  | <u> </u>   |              | $\vdash$   | <u> </u>     |  | $\vdash$        |  |  |
|               | 47  |  |          |  | <b> </b>   |              | <u> </u>   | _            | <u> </u>   | $\vdash \vdash$ |  |  |
|               | 48  |  |          |  | <del> </del>                                     | _            | <u> </u>   |              | _  | Н               |  |  |
|               | 49<br>50  | $\vdash$   | _        |  |  |              | ├—   |              | $\vdash$   | -               |  |  |
|               | יור   |  |          |  |  |              |  |              |  |                 |  |  |

| Cla      | im       |                 |   |          | [            | Date         | <u>—</u>   |              |  |  | 1 [      | Cla   | im       |                 |              |        |   | Date | <del></del>     |   |                 |  |
|----------|----------|-----------------|---|----------|--------------|--------------|--|--------------|--|--|----------|-------|----------|-----------------|--------------|--------|---|------|-----------------|---|-----------------|--|
|          |          | _               |   |          |              |              |  |              | <u> </u>   |  | 1        |       | 1        |                 |              |        |   |      |                 |   |                 |  |
| <u> </u> | Original | 5/18/20         |   |          |              |              |  |              |  |  |          | ਗ     | Original |                 |              |        |   | ŀ    |                 |   |                 |  |
| <u> </u> | rig      | /18             |   |          |              |              |  |              |  |  |          | Final | rig      |                 |              |        |   |      |                 |   |                 |  |
|          | 0        | 5               |   |          | Ī            |              |  |              |  | l  |          | _     | 0        |                 |              |        |   | İ    |                 |   |                 |  |
|          | 1        | 7               |   |          | <del> </del> | -            | <del> </del>                                     | ┢            | $\vdash$   | $\vdash$   | 1 1      |       | 51       |                 | -            |        |   | -    |                 |   | H               |  |
| $\dashv$ | 2        | 7               | — | $\vdash$ |              |              |  | ┢            | $\vdash$   | $\vdash$   | 1 1      |       | 52       |                 |              |        |   |      |                 |   | $\vdash \vdash$ |  |
| _        | 3        | 7               |   | ┢        |              | $\vdash$     |  |              |  | -  | 1 1      |       | 53       |                 | <del> </del> |        |   |      |                 |   | -               |  |
|          | 4        | 7               |   |          |              |              |  | -            | $\vdash$   | ┢  | 1 1      |       | 54       | -               | -            |        |   |      |                 | _ |                 |  |
| -        | 5        | 1               | - |          | ├            | ╟─           | ├  | <del> </del> | ┢  | -  | 1 1      |       | 55       |                 | $\vdash$     |        |   | _    |                 |   | $\vdash$        |  |
| -        | 6        | 7               |   | $\vdash$ | ┝            | $\vdash$     | -  | $\vdash$     | -  | $\vdash$   | ┨        |       | 56       | _               | $\vdash$     |        | _ |      | _               |   |                 |  |
| -        | 7        | _               | _ | $\vdash$ | -            | $\vdash$     | <del> </del>                                     |              | -  | -  | 1 }      |       | 57       |                 |              |        |   |      |                 |   | $\vdash$        |  |
|          |          | <u>r</u>        | - | $\vdash$ | -            |              | _  | -            |  | -  | 1 1      |       |          | _               | -            |        |   |      | _               | - |                 |  |
| _        | 9        | _               |   |          |              |              | $\vdash$   | $\vdash$     | -  |  | 1 }      |       | 58       | _               | <del> </del> |        |   | _    |                 |   | -               |  |
| -        |          | n               |   |          | _            |              | <u> </u>   | <u> </u>     |  | ⊢  | 1 1      |       | 59       |                 | _            |        |   | _    |                 | _ |                 |  |
|          | 10       | 1               |   | <u> </u> | -            |              | _  | <b> </b>     |  | <u> </u>   |          |       | 60       | _               | ļ            |        |   |      |                 | _ |                 |  |
|          | 11       | /               |   | _        | $\vdash$     | _            |  | <u> </u>     | <u> </u>   | <u> </u>   |          |       | 61       |                 |              |        |   |      |                 |   |                 |  |
|          | 12       | 1               |   | _        | <u> </u>     | ļ            |  | _            | <u> </u>   |  | 1 1      |       | 62       |                 |              |        |   |      |                 | _ |                 |  |
|          | 13       | /               |   | _        | <u> </u>     | _            |  | _            | _  | _  |          |       | 63       |                 | _            |        |   |      |                 |   |                 |  |
| _        | 14       |                 |   | _        | <u> </u>     | ļ            | <u> </u>   | <u> </u>     | <u> </u>   |  |          |       | 64       |                 |              |        |   |      |                 |   | Ш               |  |
|          | 15       | 1               |   |          | L_           | L_           | <u> </u>   |              | _  | _  |          |       | 65       |                 |              |        |   |      |                 |   |                 |  |
| _        | 16       | n               | L | <u> </u> | <u> </u>     | <u> </u>     | <u> </u>   | L            | <u> </u>   |  |          |       | 66       |                 |              |        |   |      | L               |   |                 |  |
|          | 17       | 2               |   |          |              |              |  |              | L_   |  | ] ]      |       | 67       |                 | L            |        |   |      |                 |   |                 |  |
|          | 18       |                 |   |          |              |              |  |              | L  |  |          |       | 68       |                 |              |        |   |      |                 |   |                 |  |
|          | 19       | 1               |   |          |              |              |  |              |  |  |          |       | 69       |                 |              |        |   |      |                 |   |                 |  |
|          | 20       | 1               |   |          |              |              |  |              |  |  | ] [      |       | 70       |                 |              |        |   |      |                 |   |                 |  |
|          | 21       | 1               |   |          |              |              |  |              |  |  | ] [      |       | 71       |                 |              | _      |   |      |                 |   |                 |  |
|          | 22       | n               |   |          |              |              |  |              |  |  | 1        |       | 72       |                 |              |        |   |      |                 |   |                 |  |
|          | 23       | 1               |   |          |              |              |  |              |  |  | 1        |       | 73       |                 |              |        |   |      |                 |   |                 |  |
|          | 24       | 1               |   |          |              |              |  |              |  |  | 1 1      |       | 74       |                 |              |        |   |      |                 |   |                 |  |
|          | 25       | 1               |   |          |              |              |  |              |  |  | ii       |       | 75       |                 |              |        |   |      |                 |   |                 |  |
|          | 26       | 7               |   |          |              |              |  |              |  |  | i i      |       | 76       |                 |              |        |   |      |                 |   |                 |  |
|          | 27       | 7               |   | _        |              |              | _  |              |  |  | i i      |       | 77       |                 | _            |        |   |      | _               |   |                 |  |
| T        | 28       | n               |   |          |              |              |  | $\vdash$     | $\vdash$   |  |          |       | 78       | $\vdash$        |              |        |   |      |                 |   | $\vdash$        |  |
| T        | 29       | 7               |   |          |              |              |  | $\vdash$     | ┪  | <del> </del>                                     | 1 1      |       | 79       | _               |              |        |   |      |                 | _ |                 |  |
| $\neg$   | 30       | n               |   |          |              |              | $\vdash$   | $\vdash$     |  | _  | 1 1      |       | 80       | _               | _            |        |   |      |                 |   |                 |  |
| ᅦ        | 31       | n               |   | -        | $\vdash$     | $\vdash$     | $\vdash$   | $\vdash$     | $\vdash$   |  | 1 1      | •••   | 81       |                 |              |        |   | -    |                 |   | $\vdash$        | -  |
| ╗        | 32       | n               |   |          | -            | _            | $\vdash$   | $\vdash$     | $\vdash$   | <del>                                     </del> | 1 1      |       | 82       |                 |              |        |   |      |                 |   |                 | _  |
| ┪        | 33       | n               |   | _        | $\vdash$     |              | ┝  |              | ┢  |  | 1 1      |       | 83       | $\vdash$        |              |        |   |      |                 |   |                 |  |
| $\neg$   | 34       | n               | - |          | $\vdash$     | -            | <del>                                     </del> | _            | $\vdash$   | <del>                                     </del> | ┨        |       | 84       | $\vdash$        |              |        |   |      |                 |   |                 |  |
| -        | 35       | n               |   |          | $\vdash$     | $\vdash$     | $\vdash$   | <del> </del> | <del>                                     </del> |  |          |       | 85       |                 |              |        | _ |      |                 |   | $\vdash$        |  |
| $\dashv$ | 36       | n               |   | _        | $\vdash$     | $\vdash$     | $\vdash$   | <u> </u>     | <del>  -</del>                                   | <del> </del>                                     | <b> </b> | _     | 86       | -               | $\vdash$     |        |   | -    |                 | - | $\vdash$        |  |
|          | 37       | n               |   | _        | $\vdash$     | $\vdash$     | $\vdash$   | $\vdash$     | -  | -  | ┪╏       | _     | 87       | -               | -            |        |   |      |                 | - | $\vdash$        |  |
| $\dashv$ | 38       | ٣               |   |          | $\vdash$     | -            | <del> </del>                                     | -            | $\vdash$   | <del> </del>                                     |          |       | 88       | $\vdash$        |              |        |   |      |                 |   |                 |  |
| _        | 39       |                 |   | $\vdash$ | $\vdash$     | <del>ا</del> |  | _            | <del> </del>                                     | ╁  | <b>{</b> |       |          | $\vdash$        |              | -      | _ |      |                 | _ |                 | -  |
| -        | 40       |                 |   | <u> </u> | <u> </u>     | ├            |  | -            | $\vdash$   |  |          | ·     | 89       | $\vdash$        |              | -      | _ |      |                 |   |                 |  |
| $\dashv$ |          |                 |   | <u> </u> |              | <del> </del> | <b>—</b>   |              | <u> </u>   | ├-   | ┨        |       | 90       | $\vdash \vdash$ |              | _      |   |      |                 |   |                 |  |
| 4        | 41       | $\vdash\vdash$  |   |          | <u> </u>     | $\vdash$     | <u> </u>   |              | —  | $\vdash$   | {        |       | 91       | $\vdash$        |              | _      |   |      | $\vdash \vdash$ |   | $\dashv$        |  |
| _        | 42       | $\vdash \vdash$ |   | <u> </u> | <u> </u>     | <del> </del> | $\vdash$   |              | -  | <u> </u>   | <b> </b> |       | 92       |                 |              |        |   |      |                 |   |                 | _  |
| 4        | 43       |                 |   |          |              | ļ            | <b> </b>   |              | <b>—</b>   | _  | <b> </b> |       | 93       | Ш               |              |        |   |      | $\sqsubseteq$   |   | <u> </u>        |  |
| $\dashv$ | 44       | $\vdash$        |   |          |              | <u> </u>     |  |              | <u> </u>   |  |          |       | 94       |                 |              |        |   |      |                 |   |                 | Щ  |
| _        | 45       |                 |   |          |              | ļ            | <u> </u>   |              | <u> </u>   | <u> </u>   |          |       | 95       | Щ               |              |        |   |      |                 |   | $\square$       |  |
| _        | 46       |                 |   |          |              |              |  |              |  | <u> </u>   |          |       | 96       |                 |              | $\Box$ |   |      |                 |   |                 |  |
| _        | 47       |                 |   |          |              |              |  |              |  | <u> </u>   |          |       | 97       |                 |              |        |   |      |                 |   |                 | $oldsymbol{ol{ol}}}}}}}}}}}}}$ |
| _        | 48       |                 |   |          |              |              |  |              |  | <u> </u>   |          |       | 98       |                 |              |        | ] |      |                 |   |                 |  |
| ļ        | 49       |                 |   |          |              |              |  |              |  |  | [        | ]     | 99       |                 |              |        |   |      |                 |   |                 |  |
|          | 50       |                 |   |          |              | L            |  |              |  |  |          |       | 100      |                 |              |        |   |      |                 |   |                 | ]  |
|          |          |                 |   |          |              |              |  |              |  |  | •        |       |          |                 |              |        |   |      |                 |   |                 |  |

| Cla   | Date              |  |  |          |              |          |          |              |  |  |  |
|-------|-------------------|--|--|----------|--------------|----------|----------|--------------|--|--|--|
| Final | Original          |  |  |          |              |          |          |              |  |  |  |
|       | 101               |  |  | -        |              |          |          |              |  |  |  |
|       | 102               |  |  |          |              |          |          |              |  |  |  |
|       | 103               |  |  |          |              |          |          |              |  |  |  |
|       | 104               |  |  |          |              |          |          |              |  |  |  |
|       | 105               |  |  |          |              |          |          |              |  |  |  |
|       | 106               |  |  |          |              |          |          |              |  |  |  |
|       | 107               | _  | <u> </u>   | _        |              |          |          |              |  |  |  |
|       | 108               |  | _  | _        |              | _        | <u> </u> | <u> </u>     | L  |  |  |
|       | 109               | <u> </u>   | _  | <b> </b> | <u> </u>     |          | _        |              |  |  |  |
|       | 110               | _  | <u> </u>   | _        | ļ            | <u> </u> | <u> </u> | _            | ļ  |  |  |
| _     | 111               | <u> </u>   | <u> </u>   |          |              | _        | <u> </u> |              | _  |  |  |
|       | 111<br>112<br>113 | _  | _  |          | _            |          | <u> </u> | <u> </u>     |  | _  |  |
|       | 114               | _  | ⊢  |          | <u> </u>     | <u> </u> |          | -            | $\vdash$   |  |  |
|       | 115               | -  | <del> </del>                                     | $\vdash$ | $\vdash$     | -        | $\vdash$ |              | <del> </del>                                     | <del>                                     </del> |  |
|       | 116               | <del>                                     </del> |  |          | H            | $\vdash$ |          | -            | -  |  |  |
|       | 117               | _  | $\vdash$   |          | -            | $\vdash$ | ┝        | $\vdash$     | -  |  |  |
|       | 117<br>118        | $\vdash$   | $\vdash$   |          | <del> </del> |          | -        | $\vdash$     | <del>                                     </del> | $\vdash$   |  |
|       | 119               | $\vdash$   | -  |          |              |          | ┢┈       | $\vdash$     | $\vdash$   |  |  |
|       | 120               |  | <del>                                     </del> |          |              |          | -        |              | $\vdash$   |  |  |
|       | 121               |  |  |          |              |          | H        | <u> </u>     |  |  |  |
|       | 122               |  | Т  |          |              |          |          |              |  |  |  |
|       | 123               |  |  |          |              |          |          |              |  |  |  |
|       | 123<br>·124       |  |  |          |              |          |          |              |  |  |  |
|       | 125               |  |  |          |              |          |          |              |  |  |  |
|       | 126               |  |  |          |              |          |          |              |  |  |  |
|       | 127               |  | <u> </u>   |          |              |          |          |              |  |  |  |
|       | 128               |  |  |          |              |          |          |              | _  |  |  |
|       | 129               |  |  | _        | <u> </u>     |          | <u> </u> |              |  | _  |  |
|       | 130               |  | _  | -        | <u> </u>     |          |          |              | <u> </u>   |  |  |
| -     | 131               | _  | _  |          | <u> </u>     |          |          |              | <u> </u>   |  |  |
|       | 132<br>133        | _  | <u> </u>   | $\vdash$ | <u> </u>     | _        | -        | _            |  |  |  |
|       | 134               |  | $\vdash$   |          | _            |          | <u> </u> | -            | ├  |  |  |
|       | 135               |  | -  | $\vdash$ | $\vdash$     |          | <u> </u> |              | $\vdash$   | $\vdash$   |  |
| _     | 136               |  | _  |          | $\vdash$     |          |          | -            | ┢  |  |  |
|       | 137               |  | _  |          |              |          |          |              | $\vdash$   |  |  |
| -     | 138               |  |  |          |              |          | _        |              | ┢  |  |  |
|       | 139               |  |  |          |              |          | Ì        |              |  |  |  |
|       | 140               |  |  | Ĺ        |              |          |          |              |  |  |  |
|       | 141               |  |  |          |              |          |          |              |  |  |  |
|       | 142               |  |  |          |              |          |          |              |  |  |  |
|       | 143               |  |  |          |              |          |          |              |  |  |  |
|       | 144               |  |  |          |              |          |          |              |  |  |  |
|       | 145               |  |  |          |              |          |          |              |  |  |  |
|       | 146               |  |  |          |              |          |          |              |  |  |  |
|       | 147               |  |  | <u></u>  |              |          |          |              |  |  |  |
|       | 148               |  |  |          |              |          |          | $oxed{oxed}$ |  |  |  |
|       | 149               |  |  | $\sqcup$ | <u> </u>     |          |          |              |  | Щ  |  |
|       | 150               |  |  |          |              |          |          |              | L  |  |  |
|       |                   |  |  |          |              |          |          |              |  |  |  |